

# Maryland Green Building Council

Annual Report - 2019

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## Maryland Green Building Council Annual Report 2019

Supported by

Maryland Department of General Services

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Maryland Governor and General Assembly.

### **Message from the Secretary**

The Maryland Green Building Council and Department of General Services are pleased to submit this 2019 Annual Report to the Governor, General Assembly and citizens of Maryland. The report represents collective efforts and hard work of multiple Maryland agency participants and representatives of environmental, business and citizen interests who serve on the Maryland Green Building Council.

The council promotes creation of state buildings that aim to increase efficiency in their use of energy, use of the sites on which they are placed, in their conservation of natural resources and in their construction and operation.

The Maryland Green Building Council evaluates high performance building technologies and provides recommendations on those that are most cost-effective for use in design and construction of state facilities. The council provides recommendations on evaluation criteria for state facilities and means of expanding green building in the state.

These efforts align with efforts of other State of Maryland agencies, the Office of the Governor and the Maryland Green Purchasing Committee to conserve the state's financial, natural and human resources.

In 2019, the Maryland Green Building Council made progress in *Changing Maryland for the Better* by positively influencing the creation of hundreds of thousands of square feet of new, energy-efficient facilities used for research, kindergarten through high school and higher education, and state offices.

Through the council's efforts, buildings constructed by the state, directly

contribute to the health of the state's citizens and create positive impacts on the state's economy and the environment.

Sincerely.

Ellington E. Churchill, Jr., Secretary

Maryland Department of General Services

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### Message from the Chair

2019 was a collaborative year for the Maryland Green Building Council. The development of 21st Century Schools Act Guidelines for K-12 projects led to a richer dialog between the council and the Interagency Commission on Schools as we worked together to craft guidelines.

We had some new Council members join the Council as previous members came to the end of their tenure or had departmental shifts. A sincere thank you to our members who have rolled off the Council and welcome to our new members.

#### **Highlights and Achievements**

- The monthly council meetings included presentations on evaluating existing buildings and use of the state's energy database to track and measure energy consumption.
- Maryland was the most improved state and moved up to 7th place (out of 50) on the American Council for an Energy-Efficient Economy 50-state scorecard.
- The council established recurring dialog with the Department of General Services through regular meetings with Secretary Churchill.
   The aim of the meetings has been to ensure that initiative of the council are congruent with those of the administration.
- The council established teleconferencing options for regular monthly meetings.
- Updates to the Operations Guide for the council have been ongoing.

#### **Looking Ahead**

My tenure on the council will end in June of 2020. In my remaining months, I look forward to continuing to work with representatives of state agencies to create a platform for interagency sharing and ideas. The council continues to be more organized and effective as time goes by and I look forward to setting the



stage for the next chair to take the council to even greater accomplishments. It has been a pleasure serving on this council for my fellow citizens and I hope you will join us at our future meetings.

Sincerely,

Mrs. Nakita Reed, Chair, Maryland Green Building Council

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#### **Summary**

#### HOW GREEN BUILDING FITS WITH MARYLAND

The State of Maryland has long-sought to protect and conserve our state's resources. This mission has been a focus of nearly every agency in the state. With the Maryland Department of General Services Green Building Council's efforts to promote the delivery of efficiently built and operated facilities, the department performs its role in advancing the state-wide conservation mission.

The efforts dovetail with other state agency programs such as the Maryland Department of Agriculture's conservation practices and programs to balance crop and livestock production with protection of natural resources, the Department of Planning's Water and Sewerage Facilities Plan to assure adequate water and sewerage facilities will be provided to support planned redevelopment and growth as outlined in the Comprehensive Land Use Plan, the numerous programs of the Maryland Department of Natural Resources to conserve and enhance open space and Maryland Department of the Environment's efforts to clean and protect the state's surface waters, air and indoor environments.

Efforts of the council are congruent with the goals of Governor Hogan's Executive Order of June 2019, 01.01.2019.08¹:

- ... implementing energy efficiency opportunities to reduce the cost of energy to operate State government.
- Reducing energy use in State government produces positive environmental, fiscal and health benefits...
- The State intends to lead by example in investing in appropriate opportunities to reduce energy consumption in State facilities
- Energy and cost savings initiatives in State facilities should be reinvigorated with ambitious new goals...

#### GREEN BUILDING COUNCIL ROLE

The Maryland Green Building Council was established by Chapter 116, Laws of Maryland, 2007. The council is within the Maryland Department of General Services (DGS). Its membership consists of private-sector representatives appointed by the Governor, representatives from key state agencies and staff support from DGS. The council meets monthly and reports to the Governor and General Assembly annually.



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<sup>&</sup>lt;sup>1</sup> https://governor.maryland.gov/wp-content/uploads/2019/06/Energy-Savings-Goals-for-State-Government-01.01.2019.08.pdf

Maryland *State Finance and Procurement Article. § 3-602.1* requires that the State employ green building technologies when constructing or renovating State-owned buildings that meet specific criteria. To promote the technologies, the council established the *High Performance Green Building Program*.

The *High Performance Green Building Program* applies to all State of Maryland agencies and local educational agencies (LEAs) that program, design and build facilities.

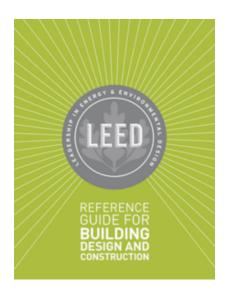
The *High Performance Green Building Program* also pertains to capital projects funded solely with State of Maryland funds, state-funded new and replacement school construction and community college capital projects receiving state funds.

The *High Performance Green Building Program* requires use of one of three green building certification or rating programs in the design, construction and operation of facilities: LEAs must follow the Program but are exempt from certification requirements.

- 1. Leadership in Energy and Environmental Design (LEED), a program of the U.S. Green Building Council
- 2. International Green Construction Code (IgCC), one of the many codes of the International Code Council
- 3. The Green Globes protocol of the Green Building Initiative.







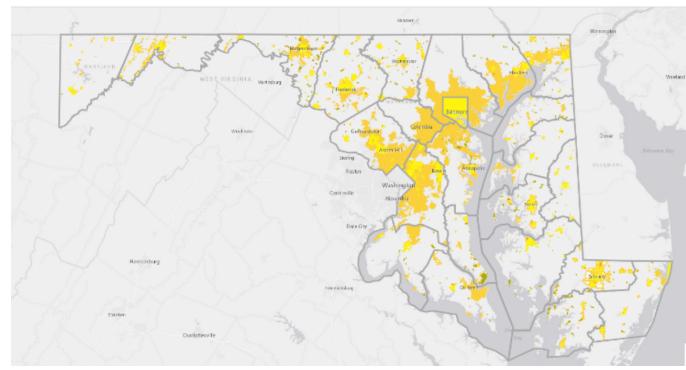
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#### MARYLAND GREEN BUILDING COUNCIL GOALS

Council goals include the promotion and creation of energy efficient buildings throughout the State of Maryland. For state facilities, this includes achieving compliance with the *High Performance Green Building Program*, promoting new green building technologies and developing criteria for high-performance buildings. At the beginning of 2018, the council set out the following goals:

- 1. Existing Building Education
  - a. Upgrade existing buildings for energy conservation
  - b. Focus on how to improve performance of existing buildings
  - c. Develop recommendations to improve efficiency of state leased facilities
- 2. Conduct Outreach
  - a. Correlate Maryland Green Building Council initiatives with the governor's agenda

- b. Engage with other, related state agencies
- c. Perform outreach at conferences and conduct seminars
- d. Assess effectiveness of the council through surveys and year over year High Performance Green Building Program use
- 3. Energy Efficiency Education
  - a. Develop recommendations to measure energy and water use in existing buildings in order to guide upgrades and future facilities
  - b. Highlight demonstration projects
  - c. Assist in the establishment of state energy reduction goals
- 4. Financial Incentives
  - a. Promote use of green building standards for private sector
  - b. Recommend financial incentives for renovation of existing facilities



Maryland Priority Funding Areas Maryland Department of Planning https://mdpgis.mdp.state.md.us/PFA/publicinfotem plate/index.html

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#### **Sub-committee Activities**

#### **OUTREACH**

Outreach and education are integral to the Maryland Green Building Council's (MDGBC) mission. The MDGBC's Outreach Committee is tasked with boosting demand for green building principles among facility designers, builders, owners, investors, and managers. These stakeholders' acceptance of green building features only begins with the demonstration of green features. It is equally important for the Outreach Committee to communicate these features' coincident impacts on facility comfort, productivity, return on investment, and containment of operating expense and risk. Ultimately, the Outreach Committee can be used to foster two-way communication with stakeholder groups, thus providing insight on the potential to refine the MDGBC's communication content. Similarly, the Outreach Committee is well-positioned to advise and assist the State with the adoption of green criteria in its own facilities construction and maintenance.

This year's efforts produced a presentation on the role of the council and requirements for employing green building programs in state funded facilities projects. The presentation was first delivered in June at the Maryland Community College Facilities Planners Council at their Garrett Community College meeting.

#### ENERGY EFFICIENCY, EDUCATION AND EXISTING BUILDINGS

The Energy Efficiency and Existing Buildings Committee seeks to work with the Department of General Services to encourage State agencies to provide information on building use, square footage and energy consumption so that an inventory could be compiled of State buildings. While green building in new construction is important, the bulk of the State's buildings are already existing. Understanding the full complement of existing buildings can help State agencies prioritize green building upgrades in order to direct scarce and competing resources.



John Shaw House, Annapolis National Register of Historic Places and one of the State of Maryland's oldest facility assets

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### **Legislative Review**

Each year, bills with potential impacts to building energy efficiency or sustainability are brought forth in the Maryland General Assembly. With the assistance of Ellen Robertson, the Maryland Department of General Services' Legislative Liaison, the Maryland Green Building Council tracks the bills and provides input on them in the form of resolutions to the Secretary of the Department of General Services and Governor, testimony at hearings or through informal correspondence. During the 2019 session, the council reviewed several bills and provided informal recommendations while continuing its work to provide guidelines as required by the 21st Century Schools Facilities Act (Senate Bill 1243 and House Bill 1783).

The Act requires that the "Maryland Green Building Council develop guidelines for achieving the equivalent of LEED Silver standards without requiring LEED certification of new school buildings, including some independent certification that school systems have achieved the required standards."

As stipulated in the Act, the council developed the required high performance green building guidelines for the Maryland Local Education Agencies. Guidelines were delivered to the Department of General Services for approval in October 2019.





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### **Building Green in Maryland**

#### PROJECTS REQUIRED TO COMPLY WITH THE HIGH-PERFORMANCE BUILDING ACT

These are projects that receive all their funding from the State of Maryland and therefore must meet the minimum requirements defined in the Maryland High Performance Green Building Program; of either USGBCs LEED Silver, 2 Green Globes or compliance with the *International Green Construction Code*.

Notable projects for which design or construction have been initiated or completed during the past year are included here. These facilities join a long, cumulative list back to the inception of the program in 2007.

			Now in
Annapolis Post Office	LEED Silver (Minimum)	22,720 GSF \$16,000,00	construction, anticipated complete by 2021

The facility located on Church Circle in Annapolis was purchased by the state from the U.S. Postal Service. It is receiving a comprehensive renovation and will be used for State of Maryland offices.

St. Mary's College Academic Building and Auditorium

LEED Silver 52,300 GSF

(Minimum) \$64,186,000 Design

Facility for the College's Music department, Educational Studies department, a learning commons study space, and a 700-seat auditorium.





Renovation
Adaptive Use
LEED Silver
Ziger Snead Architects
(Above)

St. Mary's College Academic Building and Auditorium LEED Silver GWWO Architects (Left)

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# GREEN BUILDINGS INDEPENDENT OF THE HIGH PERFORMANCE BUILDING ACT

Although not required to do so, these facilities meet the minimum requirements defined in the Maryland High Performance Green Building Program of achieving either USGBCs LEED Silver, 2 Green Globes or compliance with the *International Green Construction Code*. Although most, but not all, funding for these facilities may be from State of Maryland sources, they are exempt from the program requirements.

Notable projects that have either been initiated or completed during the past vear are included here.

University of Maryland Baltimore County Interdisciplinary Life

LEED Silver

131,000 GSF

and Construction

Sciences Building (Minimum) \$123,452,000

Interdisciplinary Life Sciences Building (ILSB) is a center for interdisciplinary research, active/applied learning, innovation, and inspiration. The ILSB will integrate research, teaching, and learning across departments and colleges in support of research of strategic importance to the State of Maryland.

**University of Maryland Eastern Shore** 

LEED Silver

120,000 GSF

School of Pharmacy & Allied Health

(Minimum)

\$ 78,400,000

The building will house the School of Pharmacy's Doctor of Pharmacy and Doctor of Pharmaceutical Sciences programs.





University of
Maryland
Baltimore County
Interdisciplinary
Life Sciences
Building
LEED Silver
(Above and left)

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Baltimore City's First Net Zero Schools Graceland Park/O'Donnell Heights & Holabird Elementary/Middle School Grimm and Parker Architecture, Inc.

"Utilizing the sites as teaching tools, the schools will be equipped with student gardens, outdoor classrooms, rooftop solar labs, and vegetative roofs that further push innovation while intertwining sustainable concepts in education – staying true to their mission to nurture, engage, and empower the whole child for life-long excellence." G+P

#### MARYLAND GREEN SCHOOL BUILDINGS

Collectively, the Maryland public schools program implements the greatest number of high performance facilities in the state. In 2019, notable projects initiated or completed in the state will seek or have achieved LEED Silver and Gold certifications. A few, will achieve net zero status. A net zero-energy building is a building with zero net energy consumption. This means the total amount of energy used by the building on an annual basis is roughly equal to the amount of renewable energy created within the facility and on the site. Efficiencies are being achieved through implementation of efficient plumbing systems, smart monitoring and controls, photovoltaic solar systems, geothermal heating and cooling, green roofs and stormwater bioretention on site.

In some circumstances, the systems used to conserve resources are made visible for incorporation into educational programs at the schools.

#### GREEN SCHOOLS STARTED OR COMPLETED IN 2019

PROJECT	RATING	LOCATION
Arnold Elementary School	Silver	Anne Arundel County
Baltimore City has started or completed 24 new facilities and major additions for high schools, elementary and middle schools.	Silver, Gold and Platinum	Baltimore City
Baltimore County has started or completed 16 new facilities and major additions for high schools, elementary and middle schools.	Silver and Gold	Baltimore County
Northern High School	Silver	Calvert County
Beach Elementary School	Silver	Calvert County
Career and Technology Center	Silver	Carroll County
<b>Greensboro Elementary School</b>	Silver	Caroline County
Gilpin Manor Elementary School	Silver	Cecil County

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New Chesapeake City Elementary School	Silver	Cecil County
Charles County has started or completed 4 new facilities and major additions for high schools, elementary and middle schools.	Silver	Charles County
North Dorchester High School	Silver	Dorchester County
Frederick County has started or completed 6 new facilities and major additions for high schools, elementary and middle schools.	Silver	Frederick County
Youth Benefit ES	Silver	Harford County
Havre de Grace MS/HS	Silver	Harford County
Joppatown Elementary School	Silver	Harford County
Howard County has started or completed 5 new facilities and major additions for high schools, elementary and middle schools.	Silver (4) Platinum (1)	Howard County
Montgomery County has started or completed 13 new facilities and major additions for high schools, elementary and middle schools.	Silver	Montgomery County
Prince George's County has started or completed 6 new facilities and major additions for high schools, elementary and middle schools.	Silver	Prince George's County
J. M. Tawes Center	Silver	Somerset County
Easton ES	Silver	Talbot County
Urban Educational Campus - BOE component	*	Washington County
Sharpsburg ES	Silver	Washington County
West Salisbury Elementary	Silver	Wicomico County
West Salisbury Elementary Beaver Run ES	Silver Silver	Wicomico County Wicomico County



Holabird Elementary/Middle School Baltimore City's First Net Zero, LEED Platinum School PV Solar, Geothermal, Green Roof Grimm and Parker Architects CAM Construction (Under construction)

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Wilde Lake Middle School Howard County Maryland's first Net Zero, LEED Platinum TCA Architects

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### **Maryland Green Building Council Membership**

The council includes members with an exceptional array of talents and technical knowledge necessary to advance the state's mission of promoting efficient and responsible facility development and operation. The members are passionate about conservation of our state's and global resources and translate that passion to actions that advantage the state. Composition of the council membership is mandated by statute. It consists of the secretary of select State of Maryland agencies or their designee. Agencies represented include;

General Services,
Budget and Management,
Department of the Environment,
Housing and Community Development,
Natural Resources,
Planning,
Transportation,
Maryland Energy Administration,
Interagency Committee on Public School Construction,
Chancellor of the University System of Maryland

Six additional members of the council are appointed by the Governor to represent environmental, business, and citizen interests, one of whom has expertise in energy conservation or green building design standards. Terms of the governor-appointed members are two years and are staggered, with half of the terms up for renewal every other year.

In addition to council members, several individuals regularly attend meetings and provide essential, meaningful contributions.

The start of 2019 brought a few changes in membership to the council.

Appointee Michael Li chose to not reapply and has been replaced by Mr. Michael Daly, an architect from Montgomery County.

One appointment vacancy remains.

Laura Rogers, designee of the Department of Transportation has transferred out of the agency and has been replaced by Mr. Eddie Lukemire.

Maryland Department of Budget and Management has reassigned Ms. Susan Gore and replaced her on the council with Mr. Ted Walsh.

Ms. Arabia Davis of the Interagency Committee on Public School Construction has been replaced by Mr. David Freese.

The council welcomes all its new members and thanks those who have moved on for their contributions.

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#### **Gubernatorial Appointees**



Nakita Reed, AIA, APT, NOMA, NCARB, LEED AP BD+C, GGP, Chair

Associate, Quinn Evans Architects

Nakita's focus is on good design, preservation, and making buildings sustainable. She specializes in restoration and adaptive reuse projects and incorporates sustainable features into new and existing buildings. She has experience with governmental agencies; counties to GSA, the Navy and Veteran Affairs Administration.

She holds a Bachelor of Science in Architecture from the University of Virginia. She completed her graduate studies at the University of Pennsylvania where she earned her Master's of Architecture, Master's of Science in Historic Preservation, and certificate in Ecological Architecture. Nakita serves on numerous boards including Preservation Maryland and the Alice Ferguson Foundation.



Michael Daly, Managing Principal

**Architectural Support Group** 

As an architecture, engineering, and construction consultant Michael helps build better buildings. Buildings that are built using healthful materials that can be reused and remanufactured, that are designed to produce more energy than consumed, that have green roofs that create habitat, produce food and restore landscapes, that reclaim and filter storm water, integrate natural light and ventilation, and provide for a safe and comfortable environment. The Architectural Support Group has been doing this for over thirty years and are committed to a program and process that fosters creativity that is integrative and collaborative in nature, and that effectively engages all stakeholders in a process that is designed to produce the best possible outcome.



Cherise Y. Seals, Senior Business Development Manager

WGL Holdings, Inc.

Cherise develops and negotiates renewable energy and efficiency agreements with government, institutional, and industrial clients.

Prior experience includes work at Constellation
Energy. At Merck & Co. she developed experience as a
Cardiovascular Specialist. She was the first African
American Technology Coordinator for the Maryland
DBED. At BGE, she was a design engineer for utility
systems and an Integration and Test Engineer for
NASA. She has served as panelist for many
governmental and institutional organizations.

Cherise holds a BS in Electrical Engineering with Mathematics Minor from Virginia Tech, an MBA from Loyola University and has a Certified Energy Manager designation. A wife and mother of two, Cherise is a youth advisor and avid singer, plays tennis, writes plays, and serves as a mentor.

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#### **Gubernatorial Appointees**



Ryan Schwabenbauer, MBA, LEED AP, Director of Sustainability

St. John Properties

Ryan leads St. John Properties mission to implement sustainable business initiatives that positively impact 40+ ongoing new construction projects and 20 million square feet of existing commercial real estate under management. He oversees strategies resulting in operational cost reductions and assures all future projects are LEED Certified. Advocating for the health and wellness of 2,200 clients, St. John Properties is the regional leader with over 65 LEED certified buildings. Ryan holds a BS in Finance from Penn State University, an MBA from University of Baltimore and is a LEED Accredited Professional.



Stuart Kaplow, Esquire Stuart D. Kaplow, P.A.

Sustainability & Green Real Estate Attorneys

Stuart represents a breadth of business interests in a varied law practice, concentrating in real estate and environmental law with focused experience in green building and sustainability.

Kaplow is a frequent speaker and lecturer on innovative solutions to the environmental issues of the day, including speaking to a wide variety of audiences on green building and sustainability. He has authored more than 700 articles centered on his philosophy of creating value.

Kaplow is a graduate of the University of Baltimore School of Law. He graduated with honors from the University of Maryland, Division of Behavioral & Social Sciences, with a Bachelor of Arts degree in land use planning.

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David Freese, Facilities Maintenance Group Manager
Interagency Committee on Public School
Construction

David has an understanding of what it takes to manage complex operations and with limited resources. Over the last 24 years David has held positions in improving manufacturing process at Pall Corporation. He then became the Facilities Maintenance director that operates multiple 24/7 manufacturing locations. He has a strong understanding of the utilization of Lean manufacturing principles for the continuous improvement of processes. He focuses on comfort and safety, air quality, lighting, and acoustics.



Mark Beck, Director of Capital Planning and Sustainability

University System of Maryland

Mark coordinates capital budget, facilities and sustainability efforts of the System's twelve institutions.

Previously, Mark planned campus venues for the 2002 Winter Olympics at the University of Utah, and developed a capital facilities rebuilding program at Yale University. He has a master's degree in urban planning and was an adjunct professor of geography and urban economics.



Anne B. Raines, Deputy Director / Deputy State Historic Preservation Officer

Maryland Historical Trust (MHT), part of the Maryland Department of Planning

After earning her Bachelor of Architecture at North Carolina State University, she worked for several years as an architect in Baltimore and in the UK. She earned her MSc in Architectural Conservation with distinction from Edinburgh College of Art (University of Edinburgh) in 2009; returning to the US, she worked as Capital Grants and Loans Administrator at MHT until assuming her current position in 2017.

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Donald VanHassent, Associate Director Maryland Department of Natural Resources, Maryland State Forester

In addition to his role on the Maryland Green Building Council, Don serves as the DNR staff for the Maryland Sustainable Forestry Council.

That Council advises the Department of Natural Resources on sustainable forestry management in Maryland and on expenditures from the Woodland Incentives Fund. Also, the Council may provide advice on regulatory and statutory policies that may be a hindrance to a viable forest products industry; new markets to enhance forest health; innovative strategies to keep private forest lands whole and undeveloped; and ways to measure how forested acres benefit nutrient efficiency.



Eddie Lukemire, Program Manager, The Secretary's Office

Maryland Department of Transportation

Eddie leads the environmental stewardship, sustainability, performance and energy policies and programs across all MDOT transportation business units and the Maryland Transportation Authority. He oversees and coordinates environmental management activities in transportation planning, design, construction, operations and maintenance.

Eddie received his Bachelor's degree in Environmental Science and Policy from the University of Maryland, and his Master's degree in Environmental Science and Policy from the John's Hopkins University.



Christopher Russell, Program Manager, State Buildings & Energy Codes

Maryland Energy Administration

Chris brings over 25 years of energy industry experience to the Maryland Energy Administration, where he is the program manager for State Buildings and Energy Codes. He holds an M.B.A. and a Master of Arts degree from the University of Maryland and a B.A. from McGill University.

Publications that Chris has authored include "Managing Energy from the Top Down" and "North American Energy Audit Program Best Practices."

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Laura Armstrong, LEED AP O+M Director, Sustainability Program

Maryland Department of the Environment

Laura promotes sustainable business practices through technical assistance programs, demonstration projects and recognition programs. Technical services include on-site energy, water and waste reduction assessments and Environmental Management System implementation. She also manages the Maryland Green Registry, a voluntary program of more than 500 organizations across the state, which encourages members to share their environmental best practices through online profiles that highlight their successes and inspire others.



Ted Walsh, Office of Capital Budgeting

Department of Budget and Management

Ted is a budget analyst in the Office of Capital Budgeting, responsible for capital projects with the Maryland Department of General Services. Project types analyzed include Judiciary, Military, Department of IT and Maryland Public Television.

Past professional experience includes roles as Research Associate at Lockheed Martin and Finance and Operations Manager for National Immigration Forum.

He holds a Master's of Public Policy from the University of Maryland, College Park and a Bachelor of Arts in Political Science from the University of South Carolina, Columbia.

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Norman Wang, RA, Director of Maryland Codes Administration

Department of Labor

Norman leads the Maryland Building Codes
Administration to fulfill several Maryland statutes
mandated responsibilities, including (i) adoption of
State building codes, (ii) administration of
Maryland Industrialized Building Program,
Maryland Accessibility Code, Minimum Livability
Code, and (iii) providing training on building codes
for local government employees.

Norman also represents the Department in several state-wide councils/committees, including Green Building Council, Maryland Building Rehabilitation Council, Maryland Resiliency Partnership, and Maryland Building Officials Association.

Norman is a registered architect in several states in US, including Maryland. He holds a Masters of Architecture Degree from the Ohio State University.



Stephen Lauria, Architect & Landscape Architect, LEEDap, Chief of Design Service, Green Building Council Staff Support

Department of General Services

Steve integrates facilities and infrastructure with their sites and communities through environmentally sensitive and sustainable solutions. For over thirty years, he has led facility and land-use design and construction projects for mixed-use, higher education, water and waste-water, power generation, biomedical and pharmaceutical research, military and healthcare facilities.

Steve's relevant board service began with a role on the Alexandria, Virginia Environmental Policy Commission in 1986, continued as president of a National Trust historic district community in Baltimore and chair of the advisory committee of the Baltimore Regional Transportation Board.

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### **Key Participants**



Martha Shrader, LEED AP-BD&C, Sustainability Manager

University System of Maryland

Facilities Management-P&C-Support

Ms. Shrader is a graduate of the University of Maryland College Park (UMD) with a BS in Natural Resource Management. She is currently the Sustainability Manager for the Facilities Management Planning and Construction Department at UMD where she provides technical support in the area of green design and construction. She has worked on multiple LEED certified projects in the University System of Maryland.

When not involved in green design and construction activities, Martha enjoys reading, walking, biking, yoga, and practicing and performing with Tagé on Steel, a steel drum band based in Hyattsville, MD.



Ellen Robertson, Legislative Liaison

Maryland Department of General Services, Office of the Secretary

Ms. Robertson assists in identifying and reviewing legislation that may impact the work of the Green Building Council, as well as considering and implementing relevant policy. She provides invaluable guidance for content of the council comments on legislation or action the council should consider.

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